



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010830  
CERTIFICATION DATE: January 31, 2014  
DATE RECERTIFICATION DUE: July 30, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

#### Estimation of Uncertainty of Measurement:

$0.020 \pm 0.004$ g/210 L	$0.150 \pm 0.007$ g/210 L
$0.080 \pm 0.004$ g/210 L	$0.250 \pm 0.007$ g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of  $k=3$ . The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

Timmy L. Neece, Jr.  
Forensic Scientist

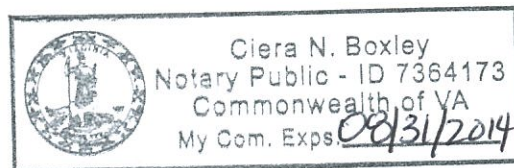
CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 16th day of February, 2014 by Timmy L. Neece, Jr.

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

msk



DBH  
Trv

**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 1/31/2014**

<b>Instrument Serial Number:</b>	<b>010830</b>	<b>As of 31-Jan-14</b>
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Maintenance Date	Certification Date	Technician Initials	Remarks
31-Jan-14	31-Jan-14	DBH (21250)	CERTIFIED.
06-Aug-13	06-Aug-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
20-Jun-13	20-Jun-13	DBH (21250)	MOVED INSTRUMENT TO NEW LOCATION WITHIN SAME FACILITY, CERTIFIED.
01-Mar-13	01-Mar-13	HMS (18910)	CERTIFIED
15-Nov-12	15-Nov-12	MSK (21355)	MOVED INSTRUMENT TO NEW LOCATION WITHIN SAME FACILITY, FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
05-Sep-12	05-Sep-12	DBH (21250)	CERTIFIED.
05-Jun-12	05-Jun-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
03-Apr-12	19-Apr-11	DBH (21250)	SITE VISIT CONDUCTED.
19-Jan-12	19-Apr-11	SED (24178)	SITE VISIT CONDUCTED.
19-Apr-11	19-Apr-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
28-Oct-10	28-Oct-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
17-May-10	17-May-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
16-Nov-09	16-Nov-09	DBH (21250)	CERTIFIED
22-May-09	22-May-09	RJP (22428)	CERTIFIED.
01-May-09	01-May-09	HMS (18910)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH  
TL

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010830 Worksheet Start Date 1/31/2014  
Location Langley AFB  
Address 65 Sweeney Blvd Hampton VA 23665  
DFS Technician Donald Hall License No. 21250

☐ Laboratory ☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) 762 Reference Barometer (mm HG) 767  
Reference Barometer(RB)Serial # 009109 RB Calibration Due 8/1/2014

## Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.301
0.300	0.301	0.291	0.310	Sample 2	0.301
Precision		sample min	sample max	Sample 3	0.301
0		0.301	0.301		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.101
0.100	0.100	0.097	0.103	Sample 2	0.101
Precision		sample min	sample max	Sample 3	0.101
0		0.101	0.101		

Dry gas standard Lot No. (with tank no.) AG227501-21

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:

50

Notes:

Instrument Serial Number

010830

Certification Date

1/31/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.247
0.250	0.251	0.243	0.258	Sample 2	0.247
Precision		sample min	sample max	Sample 3	0.246
0.001		0.246	0.247		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.149
0.150	0.150	0.145	0.154	Sample 2	0.149
Precision		sample min	sample max	Sample 3	0.149
0		0.149	0.149		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.020
Precision		sample min	sample max	Sample 3	0.019
0.001		0.019	0.020		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician



Date

1/31/14

Issuing Analyst

  
msk

Date

2/3/14

**Intox EC/IR-II: Certification**

DBH  
TLW

*Department of Forensic Science*

Serial Number: 010830      Test Number: 201

Test Date: 01/31/2014      Test Time: 11:04 EST

Technician Initials: DBH

Dry Gas Target: 0.251

Lot Number: 2961225012-09      Exp Date: 11/01/2014

Tank Pressure: 536 psi      Barometric Pressure: 762 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:05
BLK	0.000	11:05
CHK	0.247	11:06
BLK	0.000	11:08
CHK	0.247	11:09
BLK	0.000	11:10
CHK	0.246	11:11
BLK	0.000	11:13

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

DBH  
TLN

# **Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010830      Test Number: 202

Test Date: 01/31/2014      Test Time: 11:15 EST

Technician Initials: DBH

Dry Gas Target: 0.150

Lot Number: 2951215012-03      Exp Date: 11/01/2014

Tank Pressure: 144 psi      Barometric Pressure: 762 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:16
BLK	0.000	11:17
CHK	0.149	11:18
BLK	0.000	11:19
CHK	0.149	11:20
BLK	0.000	11:21
CHK	0.149	11:22
BLK	0.000	11:24

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

DBH  
TLW

*Department of Forensic Science*

Serial Number: 010830      Test Number: 203

Test Date: 01/31/2014      Test Time: 11:26 EST

Technician Initials: DBH

Dry Gas Target: 0.080

Lot Number: 0771308012-01      Exp Date: 05/01/2015

Tank Pressure: 678 psi      Barometric Pressure: 762 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:27
BLK	0.000	11:28
CHK	0.080	11:28
BLK	0.000	11:30
CHK	0.080	11:31
BLK	0.000	11:32
CHK	0.080	11:33
BLK	0.000	11:34

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH  
TLV

# **Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010830      Test Number: 204

Test Date: 01/31/2014      Test Time: 11:37 EST

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-02      Exp Date: 05/01/2015

Tank Pressure: 625 psi      Barometric Pressure: 762 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:37
BLK	0.000	11:38
CHK	0.019	11:39
BLK	0.000	11:40
CHK	0.020	11:41
BLK	0.000	11:42
CHK	0.019	11:43
BLK	0.000	11:45

## **Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success



DBH  
TLN

# **Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010830      Test Number: 205

Test Date: 01/31/2014      Test Time: 11:48 EST

Dry Gas Target: 0.301

Lot Number: AG322702-07      Exp Date: 08/15/2015

Tank Pressure: 129 psi      Barometric Pressure: 762 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:49
CHK	0.301	11:50
BLK	0.000	11:52
CHK	0.301	11:53
BLK	0.000	11:54
CHK	0.301	11:55

Test Status: *Success*

Calibration CRC: DC53A73D

DBH  
TLW

# **Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010830      Test Number: 206

Test Date: 01/31/2014      Test Time: 11:58 EST

Dry Gas Target: 0.100

Lot Number: AG227501-21      Exp Date: 10/01/2014

Tank Pressure: 193 psi      Barometric Pressure: 761 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:59
CHK	0.101	12:00
BLK	0.000	12:01
CHK	0.101	12:02
BLK	0.000	12:03
CHK	0.101	12:04

Test Status: *Success*

Calibration CRC: DC53A73D

DBH  
TLV




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>HALL, DONALD, B</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>21250</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>01/31/2014</b>
TEST EQUIPMENT NUMBER <b>010830</b>		

RESULTS: TIME SAMPLE TAKEN 12:14 EST  
0.00  
SAMPLE'S ALCOHOL CONTENT \_\_\_\_\_ GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_\_.

BREATH TEST OPERATOR
----------------------

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE

FOR COURT



# IntoxNet MIS Report

Report Generated 31 Jan 2014 at 14:24

DBH  
TLN

## Test Results

Instrument Serial Number 010830

Test # 000207 Subject Test

Test Location 1 Department of  
Test Date 31 Jan 2014

Test Location 2 Forensic Science  
Test Time 12:07  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name HALL  
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B  
License Number 21250

Card Serial Number 121250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 31 Jan 2014 End Time 12:15

Result Time 12:14

Result Date 31 Jan 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 12:07

Data Type BLK

Sample Value 0.000

Sample Time 12:08

Data Type CHK

Sample Value 0.101

Sample Time 12:09

Data Type BLK

Sample Value 0.000

Sample Time 12:11

Data Type SUBJ

Sample Value 0.000

Sample Time 12:11

Data Type BLK

Sample Value 0.000

Sample Time 12:12

Data Type SUBJ

Sample Value 0.000

Sample Time 12:14

Data Type BLK

Sample Value 0.000

Sample Time 12:15

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG227501-21

Standard Expiration Date 10/01/2014

Tank Pressure 188

Barometric Pressure 761 mmHg

Blow Sample Number 1 Blow Duration 3.72 sec

Blow Volume 2216 cc End-of-Blow Time 12:11

Blow Sample Number 2 Blow Duration 3.37 sec

Blow Volume 2171 cc End-of-Blow Time 12:14

Tamper Evident Stamp 34c1927d

Test Status Code 0

Test Status Success